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Application Serial Number:

Source:

Date Processed by STIC:

10/798,096A

THE ATTACHED PRINTOUT EXPLAINS DETECTED ERRORS.

PLEASE FORWARD THIS INFORMATION TO THE APPLICANT BY EITHER:

- 1) INCLUDING A COPY OF THIS PRINTOUT IN YOUR NEXT COMMUNICATION TO THE APPLICANT, WITH A NOTICE TO COMPLY or,
- 2) TELEPHONING APPLICANT AND FAXING A COPY OF THIS PRINTOUT, WITH A NOTICE TO COMPLY

FOR CRF SUBMISSION AND PATENTIN SOFTWARE QUESTIONS, PLEASE CONTACT MARK SPENCER, TELEPHONE: 571-272-2510; FAX: 571-273-0221

TO REDUCE ERRORED SEQUENCE LISTINGS, PLEASE USE THE CHECKER VERSION 4.2 PROGRAM, ACCESSIBLE THROUGH THE U.S. PATENT AND TRADEMARK OFFICE WEBSITE. SEE BELOW FOR ADDRESS: http://www.uspto.gov/web/offices/pac/checker/chkrnote.htm

Applicants submitting genetic sequence information electronically on diskette or CD-Rom should be aware that there is a possibility that the disk/CD-Rom may have been affected by treatment given to all incoming mail. Please consider using alternate methods of submission for the disk/CD-Rom or replacement disk/CD-Rom.

Any reply including a sequence listing in electronic form should NOT be sent to the 20231 zip code address for the United States Patent and Trademark Office, and instead should be sent via the following to the indicated addresses:

- 1. EFS-Bio (http://www.uspto.gov/ebc/efs/downloads/documents.htm , EFS Submission User Manual ePAVE)
- 2. U.S. Postal Service: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450
- 3. Hand Carry, Federal Express, United Parcel Service, or other delivery service (EFFECTIVE 06/05/04):
 U.S. Patent and Trademark Office, 220 20th Street S., Customer Window, Mail Stop Sequence, Crystal Plaza Two, Lobby, Room 1803, Arlington, VA 22202

Revised 05/17/04

Raw Sequence Listing Error Summary

ERROR DETECTED	SUGGESTED CORRECTION SERVIN NINCE IN THE PROPERTY OF THE PROPE
ATTN: NEW RULES	CASES: PLEASE DISREGARD ENGLISH "ALPHA" HEADERS WHICH WERE INSERTED BY PTO SOFTWARE
Wrapped Nu	Claim The Control of
	prevent "wrapping."
2Invalid Line L	ength. The rules require that a line not exceed 72 characters in length. This includes white spaces.
JMisaligned Ar Numbering	nino The numbering under each 5th amino acid is misaligned. Do not use tab codes between numbers:
4Non-ASCII	The submitted file was not saved in ASCII(DOS) text, as required by the Sequence Rules of
SVariable Lengti	Sequence(s)contain n's or Xaa's representing more than one residue. Per Sequence Rules, each n or Xaa can only represent a single residue. Please present the maximum number of each residue having variable length and indicate in the <220>-<271> continue to the contract of each can be seen to the contract of each ca
GPatentin 2.0 "bug"	A "bug" in Patentln version 2.0 has caused the <220>-<223> section to be missing from amino acid sequences(s) Normally, Patentln would automatically generate this section from the previously coded nucleic acid sequence. Please manually copy the relevant <220>-<223> section to Artificial or Unknown sequences.
7Skipped Sequenc (OLD RULES)	cs Sequence(s) missing. If intentional, please insert the following lines for each skipped sequence (2) INFORMATION FOR SEQ ID NO:X: (insert SEQ ID NO where "X" is shown) (i) SEQUENCE CHARACTERISTICS: (Do not insert any subheadings under this heading) (xi) SEQUENCE DESCRIPTION:SEQ ID NO:X: (insert SEQ ID NO where "X" is shown)
	Please also adjust the "(ii) NUMBER OF SEQUENCES "response to include the skipped sequences Sequence(s) mission of the skipped sequences
8Skipped Sequence: (NEW RULES)	Sequence(s) missing. If intentional, please insert the following lines for each skipped sequence <210> sequence id number <400> sequence id number on the following lines for each skipped sequence of number on the following lines for each skipped sequence of number on the following lines for each skipped sequence of number on the following lines for each skipped sequence of number on the following lines for each skipped sequence of the following lines for each skipped
9Use of n's or Xaa's (NEW RULES)	Use of n's and/or Xaa's have been detected in the Sequence Listing. Per 1.823 of Sequence Rules, use of <220>-<223> is MANDATORY if n's or Xaa's are present Per 1.823 of Sequence Rules, the pellocation of n or Xaa, and which residue n or Xaa represents
10Invalid <213> Response	Per 1.823 of Sequence Rules, the only valid <213> responses are: Unknown, Artificial Sequence, or is Artificial Sequence.
•	Use of <220> to <223> is MANDATORY if <213> "Peature" and associated numeric identifiers and resources
Palentin 2.0 "bug"	Please do not use "Copy to Disk" function of Patentin version 2.0. This causes a corrupted file, isting). Instead, please use "File Manager" or any other manual measurements required.
	amgle nucleotide: "Xaa" can only represent a single amin
	AMC - Biotechnology Systems Branch - 09/09/2003



IFWO

RAW SEQUENCE LISTING

DATE: 07/27/2004

PATENT APPLICATION: US/10/798.096A

TIME: 11:56:44

Input Set : A:\pto.lm.TXT

Output Set: N:\CRF4\07272004\J798096A.raw

```
3 <110> APPLICANT: Rea-Min Chu
              Ching-Yi Lin
              Ya-Wen Hsiao
              Kuang-Wen Liao
      7 <120> TITLE OF INVENTION: COMPLEX IMMUNO-GENE MEDICAL COMPOSITION FOR INHIBITING TUMOR
      8 <130> FILE REPERENCE: P/741-176
W-->
      9 <140> CURRENT APPLICATION NUMBER: 10/798,096A
     10 <141> CURRENT FILING DATE: 2004-03-11
W--> 11 <160> NUMBER OF SEQ ID: 4
BRRORED SEQUENCES
        <210> SEQ ID NO: 1
                                                                  Oces Not Comply
   14 <211> LENGTH: 636
                                                                  Corrected Diskette Needed
     15 <212> TYPE: DNA
        <213> ORGANISM: Human
        <223> OTHER INFORMATION: IL-6
   -> 19 <400> SEQUENCE: 1
    721 atg ac tee tte tee aca age gee tte ggt eea gtt gee tee tee etg ggg etg ete etg
        Met Asn Ser Phe Ser Thr Ser Ala Phe Gly Pro Val Ala Phe Ser Leu Gly Leu Leu
                                            10
B--> 26 stg ctg cct gct gcc ttc cct gcc cca gta ccc cca gga gaa gat tcc aaa gat gta gcc
     28 Val Leu Pro Ala Ala Phe Pro Ala Pro Val Pro Pro Gly Glu Asp Ser Lys Asp Val Ala
     29
                                            30
B--> 31 gcc.cca cac aga cag cca ctc acc tct tca gaa cga att gac aaa caa att cgg tac atc
     32(180 /
     33 Ala Pro His Arg Gln Pro Leu Thr Ser Ser Glu Arg Ile Asp Lys Gln Ile Arg Tyr Ile
     34
E--> 36 ctc gac age atc tea gec etg aga aag gag aca tgt aac aag agt aac atg tgt gaa
     37 agc 240)
     38 Leu Asp Gly Ile Ser Ala Leu Arg Lys Glu Thr Cys Asn Lys Ser Asn Met Cys Glu Ser
     39
E--> 41 ago aaa gag gca ctg gca gaa aac aac ctg aac ctt cca aag atg gct gaa aaa gat gga
     42 (300)
     43 Ser Lys Glu Ala Leu Ala Glu Asn Asn Leu Asn Leu Pro Lys Met Ala Glu Lys Asp
W--> 44 Gly
W--> 45
                                                                                    100
B--> 47 tgg-ttc caa tot gga tto aat gag gag act tgc otg gtg aaa atc acc act ggt ott ttg
     49 Cys Phe Gln Ser Gly Phe Asn Glu Glu Thr Cys Leu Val Lys Ile Ile Thr Gly Leu Leu
```

RAW SEQUENCE LISTING DATE: 07/27/2004
PATENT APPLICATION: US/10/798,096A TIME: 11:56:44

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```
W--> 50
                                             110
                                                                 115
                                                                                      120
 B--> 52 gag-ttt gag gta tac cta cag tac ctc cag aac aga ttt gag agt agt gag gaa caa gcc
      53 (420)
      54 Glu Phe Glu Val Tyr Leu Glu Tyr Leu Gln Asn Arg Phe Glu Ser Ser Glu Glu Gln Ala
 W--> 55 125
                               130
                                                   135
                                                            140
 B--> 57 aga-gct gtg cag atg agt aca aaa gtc ctg atc cag ttc ctg cag aaa aag gca aag aat
      59 Arg Ala Val Gln Met Ser Thr Lys Val Leu Ile Gln Phe Leu Gln Lys Lys Ala Lys Asn
                                             150
                                                                 155
 B--> 62 cta gat gca ata acc acc cct gac cca acc aca aat gcc agc ctg ctg acg aag ctg cag
      63 (540)
      64 Leu Asp Ala Ile Thr Thr Pro Asp Pro Thr Thr Asn Ala Ser Leu Leu Thr Lys Leu Gln
 W--> 65
                                             170
                                                                 175
 B--> 67 gga cag aac cag tgg ctg cag gac atg aca act cat ctc att ctg cgc agc ttt aag gag
      68 (600)
      69 Ala Gln Asn Gln Trp Leu Gln Asp Met Thr Thr His Leu Ile Leu Arg Ser Phe Lys Glu
 B--> 72 ttc qtg cag tcc agc ctg agg gct ctt cgg caa atg
      74 Phe Leu Gln Ser Ser Leu Arg Ala Leu Arg Gln Met
 W--> 75
                                                When coald, caas or caas, pride is present,
                        205
      77 <210> SBQ ID NO: 2
      78 <211> LENGTH: 60
      79 <212> TYPE: DNA
      80 <213>ORGANISM: Human
      81 <223> OTHER INFORMATION: IL-2 Signal Peptide
 E--> 83 <400> SEQUENCE: 2
 B--> 85 atg tac agg atg caa ete etg tet tge att gea eta agt ett gea ett gte aca aac agt
   286 (60)
      87 Net Tyr Arg Met Gln Leu Leu Ser Cys Ile Ala Leu Ser Leu Ala Leu Val Thr Asn Ser
    ¥ 88 1
      91 <210> SEQ ID NO: 3
      92 <211> LENGTH: 342
                                              Same error
94 <213> ORGANISM: Human O20 Sequence Encoding Human IL-15

15 <223> OTHER INFORMATION: Partial Sequence Encoding Human IL-15

97 <400> SEQUENCE: 3
     93 <212> TYPE: DNA
      100 (60)
      101 Asn Trp Val Asn Val Ile Ser Asp Leu Lys Lys Ile Glu Asp Leu Ile Gln Ser Met His
      102 1
                                              10
 B--> 104 att gat get act tta tat acg gas agt gat gtt cac ccc agt tgc ass gts aca gcs atg
      106 LLe Asp Ala Thr Leu Tyr Thr Glu Ser Asp Val His Pro Ser Cys Lys Val Thr Ala Met
      107
 B--> 109 ago tgc ttt etc ttg gag tta caa gtt att tca ett gag tcc gga gat gca agt att cat
      111 Lys Cys Phe Leu Leu Glu Leu Gln Val Ile Ser Leu Glu Ser Gly Asp Ala Ser Ile His
      112
```

RAW SEQUENCE LISTING

. . .

DATE: 07/27/2004

PATENT APPLICATION: US/10/798,096A

TIME: 11:56:44

Input Set : A:\pto.lm.TXT

Output Set: N:\CRF4\07272004\J798096A.raw

B--> 114 gat aca gta gas ast ctg atc atc cts gcs asc agt ttg tct tct ast ggg ast gts 115 (240); 116 Asp Thr Val Glu Asn Leu Ile Ile Leu Ala Asn Asn Ser Leu Ser Ser Asn Gly Asn W--> 117 Val W--> 118 65 B--> 120 aga gaa tot gga tgo ass gaa tgt gag gas otg gag gas ass ast att ass gas tit tig 121 (309/ 122 Thr Glu Ser Gly Cys Lys Glu Cys Glu Glu Leu Glu Glu Lys Asn Ile Lys Glu Phe Leu 85 90 B--> 125 pag agt ttt gta cat att gtc caa atg ttc atc aac act tct 127 GIn Ser Phe Val His Ile Val Gln Met Phe Ile Asn Thr Ser W--> 128 131 <210> SBQ ID NO: 4 132 <211> LENGTH: 402 133 <212> TYPE: DNA 134 <213> ORGANISM: Artificial Sequence W--> 135 <220> PEATURE: Bases 1-60 Code for IL-2 Signal Peptide W--> 135 <220> FEATURE: Bases 1-60 Code for IL-2 Signal Peptide DECOME DECOME DECOME 136 <223> OTHER INFORMATION: Artificial Chimeric Sequence Encoding IL-25P/IL-15MP AWWIVIC 138 <400> SEQUENCE: 4 B--> 140 app tac agg atg cas etc etg tet tge att ges ets agt ett ges ett gte ses asc agt 141 (60) 142 Met Tyr Arg Met Gln Leu Leu Ser Cys Ile Ala Leu Ser Leu Ala Leu Val Thr Asn Ser 143 1 10 146 (129 147 Asn Trp Val Asn Val Ile Ser Asp Leu Lys Lys Ile Glu Asp Leu Ile Gln Ser Met His 148 30 B--> 150 apt-gat get act tta tat acg gaa agt gat gtt cac ccc agt tgc aaa gta aca gca atg 151 (180/ 152 Ile Asp Ala Thr Leu Tyr Thr Glu Ser Asp Val His Pro Ser Cys Lys Val Thr Ala Met 153 .55 B--> 155 aag tgc ttt ctc ttg gag tta caa gtt att tca ctt gag tcc gga gat gca agt att cat 156 (240) 157 bys Cys Phe Leu Leu Glu Leu Gln Val Ile Ser Leu Glu Ser Gly Asp Ala Ser Ile His 158 65 70 75 B--> 160 gat aca gta gaa aat ctg atc atc cta gca aac aac agt ttg tct tct aat ggg aat gta 161 (300) 162 Asp Thr Val Glu Asn Leu Ile Ile Leu Ala Asn Asn Ser Leu Ser Ser Asn Gly Asn Val 90 95 B--> 165 Aca yaa tot gga tgo aaa gaa tgt gag gaa otg gag gaa aaa aat att aaa gaa ttt ttg 166 (360/ 167 Thr Glu Ser Gly Cys Lys Glu Cys Glu Glu Leu Glu Glu Lys Asn Ile Lys Glu Phe Leu 168 105 110 120 B--> 170 eag agt tit gta cat att gtc caa atg tic atc aac act tct 172 GIn Ser Phe Val His Ile Val Gln Met Phe Ile Asn Thr Ser 130

RAW SEQUENCE LISTING ERROR SUMMARY DATE: 07/27/2004 PATENT APPLICATION: US/10/798,096A TIME: 11:56:45

Input Set : A:\pto.lm.TXT

Output Set: N:\CRF4\07272004\J798096A.raw

Invalid Line Length:

The rules require that a line not exceed 72 characters in length. This includes spaces.

Seq#:1; Line(s) 21,23,26,28,31,33,38,64,72

Seq#:2; Line(s) 87

Seq#:3; Line(s) 101,106,111,122,125 Seq#:4; Line(s) 142,147,152,157,162,167

VERIFICATION SUMMARY PATENT APPLICATION: US/10/798,096A DATE: 07/27/2004 TIME: 11:56:45

Input Set: A:\pto.lm.TXT
Output Set: N:\CRF4\07272004\J798096A.raw

```
L:7 M:283 W: Missing Blank Line separator, <120> field identifier
L:8 M:283 W: Missing Blank Line separator, <130> field identifier
L:9 M:283 W: Missing Blank Line separator, <140> field identifier
L:11 M:283 W: Missing Blank Line separator, <160> field identifier
L:19 M:200 E: Mandatory Header Field missing, <220> Tag not found for SEQ ID#:1
L:21 M:254 E: No. of Bases conflict, LENGTH:Input:0 Counted:60 SEQ:1
L:26 M:254 E: No. of Bases conflict, LENGTH:Input:0 Counted:120 SBQ:1
L:31 M:254 E: No. of Bases conflict, LENGTH:Input:0 Counted:180 SEQ:1
L:36 M:254 E: No. of Bases conflict, LENGTH:Input:0 Counted:237 SEQ:1
L:41 M:254 E: No. of Bases conflict, LENGTH:Input:0 Counted:300 SEQ:1
L:44 M:336 W: Invalid Amino Acid Number in Coding Region, SEQ ID:1
L:45 M:336 W: Invalid Amino Acid Number in Coding Region, SEQ ID:1
L:47 M:254 E: No. of Bases conflict, LENGTH:Input:0 Counted:360 SEQ:1 /
L:50 M:336 W: Invalid Amino Acid Number in Coding Region, SEQ ID:1
L:52 M:254 E: No. of Bases conflict, LENGTH:Input:0 Counted:420 SEQ:1
L:55 M:336 W: Invalid Amino Acid Number in Coding Region, SEQ ID:1
L:57 M:254 E: No. of Bases conflict, LENGTH:Input:0 Counted:480 SEQ:1
L:60 M:336 W: Invalid Amino Acid Number in Coding Region, SEQ ID:1
L:62 M:254 E: No. of Bases conflict, LENGTH:Input:0 Counted:540 SEQ:1
L:65 M:336 W: Invalid Amino Acid Number in Coding Region, SEQ ID:1
L:67 M:254 E: No. of Bases conflict, LENGTH:Input:0 Counted:600 SEQ:1
L:70 M:336 W: Invalid Amino Acid Number in Coding Region, SEQ ID:1
L:72 M:254 B: No. of Bases conflict, LENGTH:Input:0 Counted:636 SEQ:1
L:75 M:336 W: Invalid Amino Acid Number in Coding Region, SEQ ID:1
L:83 M:200 B: Mandatory Header Field missing, <220> Tag not found for SEQ ID#:2
L:85 M:254 E: No. of Bases conflict, LENGTH:Input:0 Counted:60 SEQ:2
L:97 M:200 B: Mandatory Header Field missing, <220> Tag not found for SEQ ID#:3
L:99 M:254 E: No. of Bases conflict, LENGTH:Input:0 Counted:60 SEQ:3
L:104 M:254 E: No. of Bases conflict, LENGTH:Input:0 Counted:120 SEQ:3
L:109 M:254 E: No. of Bases conflict, LENGTH:Input:0 Counted:180 SEQ:3
L:114 M:254 E: No. of Bases conflict, LENGTH:Input:0 Counted:240 SEQ:3
L:117 M:336 W: Invalid Amino Acid Number in Coding Region, SEQ ID:3
L:118 M:336 W: Invalid Amino Acid Number in Coding Region, SEQ ID:3
L:120 M:254 E: No. of Bases conflict, LENGTH:Input:0 Counted:300 SEQ:3
L:123 M:336 W: Invalid Amino Acid Number in Coding Region, SEQ ID:3
L:125 M:254 E: No. of Bases conflict, LENGTH:Input:0 Counted:342 SEQ:3
L:128 M:336 W: Invalid Amino Acid Number in Coding Region, SEQ ID:3
L:135 M:283 W: Missing Blank Line separator, <220> field identifier
L:135 M:256 W: Invalid Numeric/Header Field, <220> has non-blank data
L:140 M:254 E: No. of Bases conflict, LENGTH:Input:0 Counted:60 SEQ:4
L:145 M:254 B: No. of Bases conflict, LENGTH:Input:0 Counted:120 SEQ:4
L:150 M:254 E: No. of Bases conflict, LENGTH:Input:0 Counted:180 SEQ:4
L:155 M:254 E: No. of Bases conflict, LENGTH:Input:0 Counted:240 SEQ:4
L:160 M:254 E: No. of Bases conflict, LENGTH:Input:0 Counted:300 SEQ:4
L:165 M:254 E: No. of Bases conflict, LENGTH:Input:0 Counted:360 SEQ:4
L:170 M:254 E: No. of Bases conflict, LENGTH:Input:0 Counted:402 SEQ:4
```